

0055-IS

### ABSTRACT OF THE INVENTION

A process for mono-alkylating monocyclic aromatic hydrocarbons is disclosed wherein the process comprises reacting at least one monocyclic aromatic hydrocarbon with at least one  $\alpha$ -olefin having from 4 to 20 carbon atoms in the presence of an anhydrous alkane sulfonic acid at a temperature below about 280° F.

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